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Technical data sheet
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PA6 C (Polyamide 6, casted)

Properties	*Value*	*Unit*	*DIN Standard*
Hardness	*85±3*	*Shore D*	ISO 868
Density	*1,15*	*g/cm^3*	ISO 1183-1
Tensile Strength 23°C	*85*	*MPa*	ISO 527
Elongation at Break 23°C	*40*	*%*	ISO 527
E-modulus	*3900-4200*	*MPa*	ISO 527
Impact strenght	*No break*	*kJ/m^2*	DIN53453
Ball identation hardness	*160*	*MPa*	ISO 2039-1
Heat distortion	*0,23*	*W/mK*	DIN 53461
Sliding coefficient	*0,4*	*µ*	/
Wather absorption 23°C, saturation	*6,5*	*%*	ISO 62
Service Temperature (Min-Max)	*-40/+105*	*°C*	/
Short-term service temperature	*170*	*°C*	/
Melting temperature	*220*	*°C*	ISO 3146
Therm. Coefficient of linear exp.	*8*	*$1/K.10^{-5}$*	DIN53752
Flammability classification	*HB*		UL 94

In sealing technology, PA6 (polyamide 6) is used for components requiring high strength, toughness, and wear resistance.
It is suitable for guide rings, wear rings, bushings, sliding elements, and back-up rings under moderate loads.
PA6 is often used as a cost-effective substitute for POM in larger dimensions, where lower dimensional stability is acceptable.
It offers good resistance to mineral oils and diluted acids and bases, but absorbs moisture, which can affect dimensions.

Foodstuf approval:
FDA *
EU Regulation 10/2011*

*The user is responsible for performing the necessary tests to confirm that the above-mentioned material is suitable for use in pharmaceutical and medical applications.